

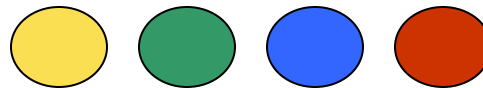


An Introduction to Shareable Metadata

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Metadata Librarian

Thanks to...

Some content and examples borrowed, with permission, from Jenn Riley and Sarah Shreeves' workshop series, *Metadata for You and Me*, funded by the Institute of Museum and Library Services (IMLS). ¹



First, an exercise...



What does this record describe?

- `<dc:title>Bowie County Texas (County Number 19, Supplementary Sheet D)</dc:title>`
- `<dc:creator>Texas Transportation Planning and Programming Division.</dc:creator>`
- `<dc:subject>Texarkana</dc:subject>`
- `<dc:subject>Kennedy Lake</dc:subject>`
- `<dc:subject>Coca Cola Lake</dc:subject>`
- `<dc:subject>Hobo Jungle Park</dc:subject>`
- `<dc:publisher>The General Libraries, University of State</dc:publisher>`
- `<dc:identifier>http://library.university.edu/raw/tcbowid1.html</dc:identifier>`



Example
from
*Metadata
for You and
Me*

How about this one?

- <dc:identifier>http://museum.university.edu/unique identifier</dc:identifier>
- <dc:publisher>State University Museum of Ichthyology, Fish Field Notes</dc:publisher>
- <dc:format>jpeg</dc:format>
- <dc:rights>These pages may be freely searched and displayed. Permission must be received for subsequent distribution in print or electronically. Please go to <http://museum.university.edu/> for more information.</dc:rights>
- <dc:type>image</dc:type>
- <dc:description>1926; 0070; 06; Little S. Br. Pere Marquette R.; THL26-68; 71300; 71301; 71302; 71303; 71304; 71305; 71306; 71307; 71308; 71309; 07; 1926/07/06; R12W; S09; Second collector Moody; T16N</dc:description>
- <dc:subject>Cottus bairdi; Esox lucius; Cottus cognatus; Etheostoma nigrum; Salmo trutta; Oncorhynchus mykiss; Catostomus commersoni; Pimephales notatus; Margariscus margarita; Rhinichthys atratulus; mottled sculpin; northern pike; slimy sculpin; johnny darter; brown trout; rainbow trout; white sucker; bluntnose minnow...</dc:subject>
- <dc:language>UND</dc:language>
- <dc:source>Michigan 1926 Langlois, v. 1 1926--1926; </dc:source>

Orig. No. 68 Sta. No. _____

Locality Michigan: Little S. Br. R. near Marquette R., Sec. 9, T. 16 N.
(Home), R. 12 W., Newaygo Co.

Water: spring and surface - bad, considerable spring floods: clear, colorless

Vegetation: few small patches of sedg. grass, and few rushes & Sagittaria

Bottom: fine gravel & many boulders, at intervals boulders Temp. 71° - Air 84°

Shore: cedar, sawpines, aspens, meadows, etc Current: strong

Distance from shore: on road 40-50 ft Tide: _____

Depth of capture: _____ Depth of water: as 20 in

Method of capture: _____ Date July 11, 1926

Collected by Langhans & Moody Time: _____

Orig. preserv. _____

Caddis flies exceedingly abundant, also crayfish.
few snails & seeds.

16 rainbow trout; 6 brown trout; 1 great northern
pike; 12 common suckers; 1 *Cottus bairdii*; 13 *Cottus*
cognatus; 4 black-nosed dace; 1 blunt-nosed minnow;
5 northern dace; 4 Johnny darters.

71300 - *Cottus bairdii bairdii* ①
71301 - *Esox lucius* ⑦
71302 - *Cottus cognatus* ②②
71303 - *Boleophthalmus nigrum nigrum* ④
71304 - *Salmo faxio* ⑦
71305 - *Salmo i. irideus* ①⑥
71306 - *Catostomus c. commersonii* ⑬
71307 - *Hybostichus notatus* ①
71308 - *Margariscus margarita nachtrabi* ⑤
71309 - *Rhinichthys atronaseus lunatus* ④

Example
from
Metadata
for You and
Me

And this one?

[add to bookbag](#)

Title	Untitled song
Author/Creator	Phillips, Nat
Resource Type	Generic Document
Resource Format	http://espace.library.uq.edu.au/eserv/UQ:135587/untitled.pdf
Note	Song
Subject	410000 The Arts; 410100 Performing Arts; 410102 Drama, Theatre and Performance Studies
URL	http://espace.library.uq.edu.au/view/UQ:135587

Record retrieved from OAster 7/23/08

Opening Chorus.

Girls
Everybody hello to you, everybody how do you do
Music and dancing sweet fun and romance
So don't hesitate take any old chance
You know that's the reason we're here
Is to make you all gay and bright
For we want to be happy, you want to be happy
Happy together to-night.

BUSINESS

Two Girls
Good evening everybody we're two dancers of renown
And every now and then you'll see us bobbing up and down
If we should turn a summersault, there's not the slightest doubt
That all the boys in front will get their Opera Glasses out.

Juvenile
Good evening everybody I'm the hero I suppose
I sing and dance and Jazz about and wear the smartest clothes
And when you see me riding in my car as I pass by,
All the girls will give to me the Glad Glad eye.

Soubrette or character man/woman
Good evening everybody cheer, Oh and how do you do,
I'm not pretty, I'm not ugly I'm a cross between the two
I can take off anything at acting I am hot. what. got.
Well 'pon my soul would you believe that minds some folks have

Character Man
Good evening everybody I was once an actor great
But the drama of to day is in a sordid state
It's a far far better thing I'm about to do to-day
I've got to earn my living and Revues the only way.





Utility Man
Good evening everybody oh I'm the handy man
I play all kinds of different parts in fact do all I can
There's only one more in the show he should be here by now
Please give this lad a chance because he makes an awful row.

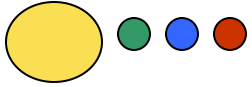
Comedian
Good evening everybody tho' we're never met before.
So I'll tell you who I am in case you wonder what I'm for
I shall play a lot of parts but I shall be disguised
Because I think it safer that I shan't be recognised.

Good evening everybody we're two helpers in Revue
We're going to do our little bit and sing and dance for you
You'll see us play parts in the show that really are sublime
There's a few more to come on yet so we won't take up your time

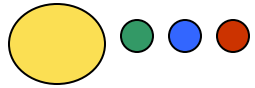
Leading Lady

Contents




-  Why should I share metadata?
-  How can I share metadata?
-  What is shareable metadata, anyway?
-  How can I create it?

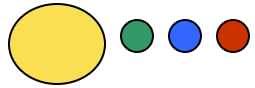


Why should I share metadata?



Why should I share metadata?

- It's good for users!
 - Fewer-stop shopping
 - Wide-net searching
 -  WorldCat®
 - 
 - Discipline-specific searching
 - 

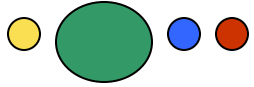


Why should I share metadata?

- It's also good for libraries!
 - Can't assume users will come to us
 - Sharing = exposure
 - Exposure = users
 - Users = proven usefulness
- Increased opportunities for collaboration
 - With other libraries
 - With users (tagging, etc.)

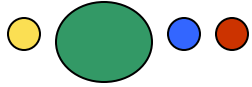


How can I share metadata?



Ways to share metadata

- Federated searching
- Aggregators
 - OAI-PMH
- Contributing content



Federated Searching

- Repositories are searched individually, and the results are combined
- Examples: Z39.50 SRU
 - **Pro:** Everyone maintains their own records
 - **Cons:** Slow, distributed infrastructure, can't manipulate results sets or standardize records

Aggregators

- Harvest metadata records and maintain them locally
- Examples:



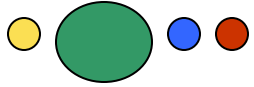
- **Pro:** More efficient searching, standardized records, increasingly popular
- **Con:** Can be out of date if records changed since last harvest



OAI-PMH: What is it?

The Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)

- Lets you expose your metadata to harvesters who create aggregations
- Most OAI-PMH uses Unqualified Dublin Core, but it can support other metadata formats
- Quickly becoming the standard for metadata sharing in libraries



OAI-PMH: How to use it?

- 3 methods for exposing your metadata with the OAI-PMH protocol
 - Turn on the OAI-PMH module in your repository software (DSpace, ContentDM)
 - Create a standalone OAI-PMH server and load your records into it
 - Create a Static Repository
 - Best for small, static collections of metadata
 - Metadata records in an XML document
 - Share via a Static Repository Gateway

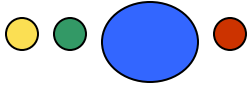


Sharing content

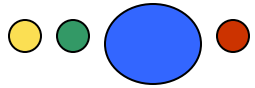
- Libraries contribute digitized items and metadata to 3rd-party repositories
- Example: Flickr Commons and Library of Congress
 - Jan. 16: LoC puts 3,100+ images on Flickr
 - Jan. 18: All 3,100+ images have been viewed, 1.1 million total views, 420 have comments, 1,200 have been favorited ²



- **Pro:** Meet users where they are, lots of exposure
- **Con:** Not yet automated

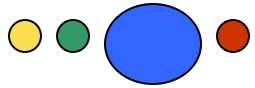


What is shareable metadata, anyway?



The basics: What is metadata?

- Metadata is structured data about library collections
- What does it do?
 - Provides access to objects (descriptive)
 - Assists in management of objects (administrative, technical, and preservation)
- A helpful way to look at it:
 - Metadata is a collection of information about an object with different 'views' for different uses/users.



The basics: Metadata as ‘view’



Generic

dc.format: picture
dc.subject: dogs

Scientific

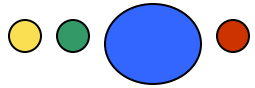
dc.format: color slide
dc.subject: *Canis lupus familiaris*

Art

dc.format: color photography
dc.subject: eyes (motifs)

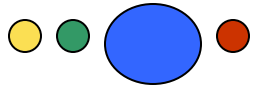
Personal

dc.format: Facebook photo
dc.subject: Cholla



The basics: Metadata as ‘view’

- Some views are based on privacy or security
 - Example: in DSpace, dc.provenance only displays for administrators because it contains automatically-generated information about submitters
- Most software (DSpace, ContentDM, etc.) does not allow for creating custom ‘views’ of metadata
- Thinking about your metadata in terms of ‘views’ can be helpful when you need it to support multiple activities (e.g. display, preservation, reuse, etc.)

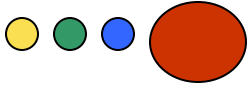


What is shareable metadata?

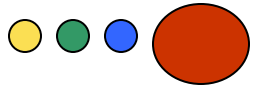
- A view of your metadata that promotes search interoperability
- May be different from the view that is most useful locally
 - May be less rich
 - May avoid specialized fields and vocabularies
 - May contain contextual information that would be redundant locally

Characteristics of shareable metadata

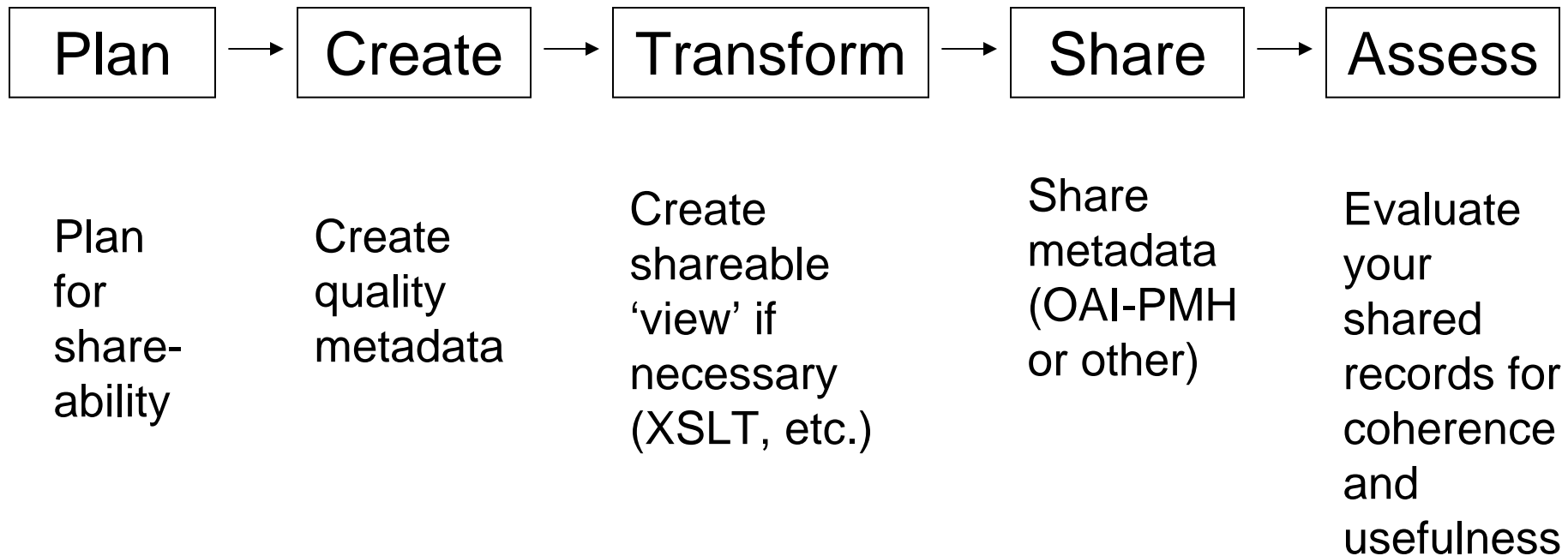
- Quality metadata
 - Consistent
 - Elements used appropriately
- Human understandable outside local context
 - Does not rely on a specific delivery platform
 - Contains collection-level information
- Preferably machine processable
 - Allows for batch processes that enhance or standardize

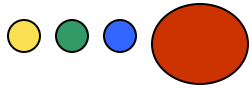


How can I create shareable metadata?



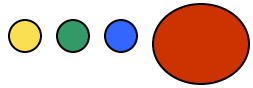
Creating shareable metadata





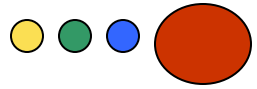
Some things to consider

- Be consistent and use standards
 - It's even more important in a shared environment!
 - What are your peer institutions doing? Consider sharing in the same way.
- Do it right
 - Don't hack the metadata to accommodate the software!
 - If you have to hack something, hack the interface



Some more things to consider

- Build context into your records (don't rely on collection-level records)
- Document your metadata practices for aggregators
 - It will help them understand what you've got and standardize/enhance it
 - Example: DC records generated from MARC records have certain quirks. Aggregators can run scripts to change them.
 - Use OAI-PMH functions or collection 'About' pages to document

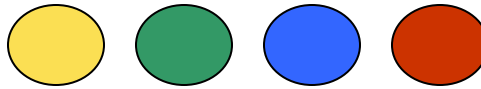


Some final things to consider

- Before you share, look at some of your records as they will appear to an aggregator – revise accordingly
- After you share, see how your metadata looks in different contexts – revise accordingly
- Think twice about sharing metadata for inaccessible items

References and Resources

1. Shreeves, Sarah, Jenn Riley, and Richard Urban. "Metadata for You and Me." IMLS-funded workshop series, 2007-2008.
(<http://images.library.uiuc.edu/projects/mym/>)
2. Raymond, Matt. "Flickr Followup." [Weblog entry.] Library of Congress Blog. January 18, 2008. (<http://www.loc.gov/blog/?p=233>)



- Dublin Core Metadata Initiative (<http://dublincore.org/>)
- Flickr: The Commons (<http://www.flickr.com/commons>)
- Open Archives Initiative (<http://www.openarchives.org/>)
- OAlster (University of Michigan) (<http://www.oaister.org/>)

Questions?



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